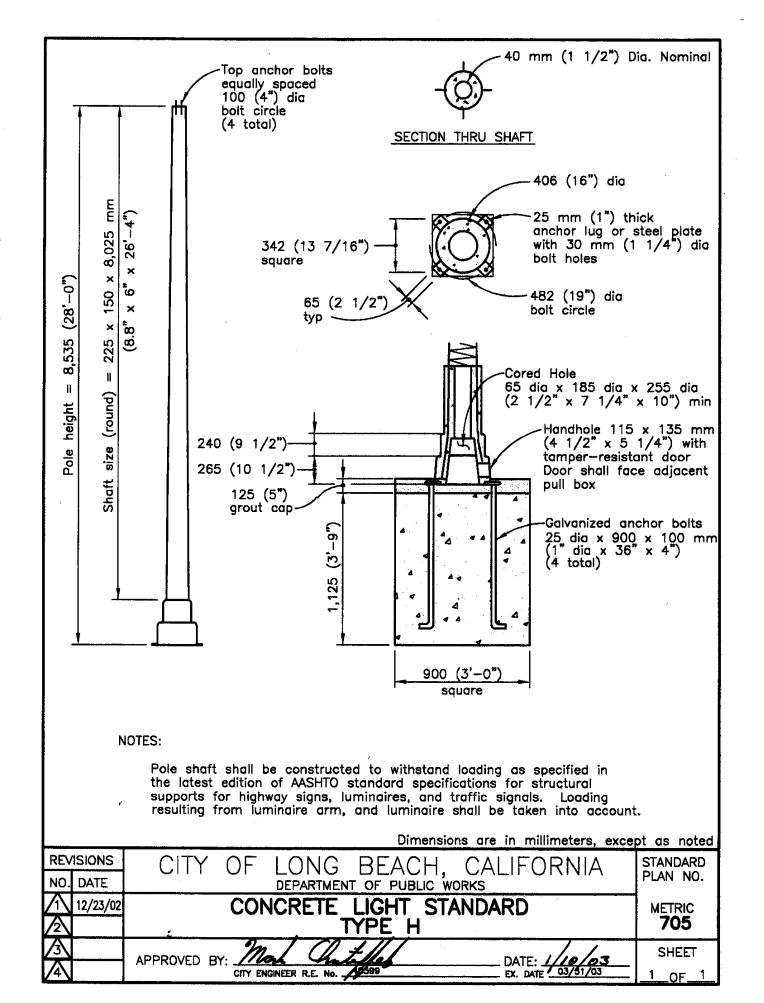
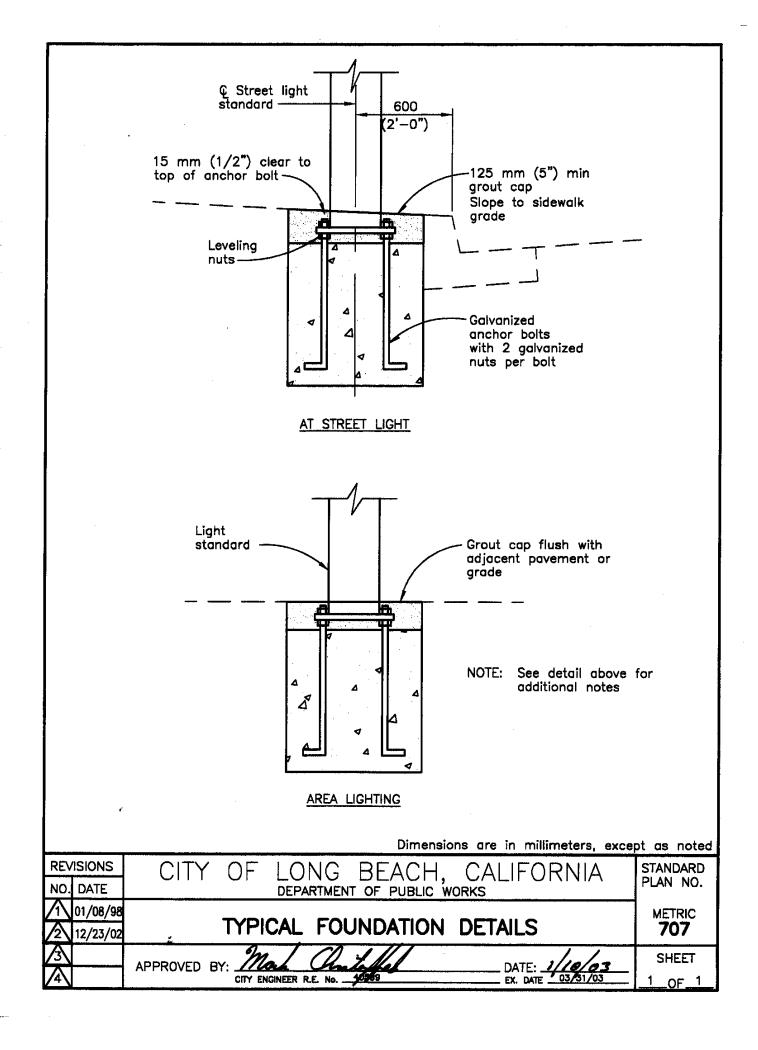
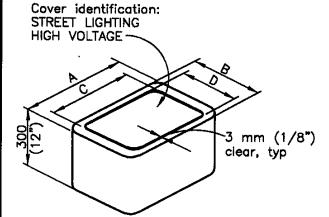


	Dimensions are in millimeters, exce	pt as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
1 12/23/02	CONCRETE LIGHT STANDARD TYPE G	METRIC 704
3	APPROVED BY: Mal at les DATE: 1/10/03	SHEET
/4\	CITY ENGINEER R.E. No. 10599 EX. DATE 03/31/03	1_0F_1



				MAST ARM		
MAST ARM TYPE		LIGHT STANDARD			IG HEIGHT nm (±6")	
Aluminum Pole Top				1,800 mm (6 foot)	2,400 mm (8 foot)	
00	Mounting Height	TYPE A	8,000 mm (26'-3")	8,375 mm (27'-6")	8,600 mm (28'-3")	
CLAMP-ON-MAST ARM-TYPE I	<u> </u>	TYPE B, C & D	9,525 mm (31'-3")	9,900 mm (32'-6")	10,125 mm (33'-3")	
Aluminum				1,800 mm (6 foot)	2,400 mm (8 foot)	
Pole Cap	Mounting Height	TYPE A	8,000 mm (26'-3")	8,850 mm (29'-0")	9,075 mm (29'-9")	
TOP MOUNTED MAST ARM-TYPE II	\ 	TYPE B, C & D	9,525 mm (31'-3")	10,375 mm (34'-0")	10,600 mm (34"-9")	
Aluminum				1,200 mm (4 foot)	1,800 mm (6 foot)	
Pole Cap	Mounting Height	TYPE F	7,500 mm (24'-7")	8,075 mm (26'–6")	8,300 mm (27'-3")	
	{			1,800 mm (6 foot)	2,400 mm (8 foot)	
TOP MOUNTED MAST ARM-TYPE III		TYPE H	8,535 mm (28'-0")	9,375 mm (30'-9")	9,600 mm (31'-6")	
Aluminum Pole Cap				3,000 mm (10 foot)	3,600 mm (12 foot)	
		TYPE A	8,000 mm (26'-3")	7,875 mm (25'-10")	8,100 mm (26'-7")	
	Mounting Height	TYPE B, C	9,525 mm (31'-3")	9,400 mm (30'-10")	9,625 mm (31'-7")	
CLAMP-ON WITH TIE-ROD-TYPE IV)					
Aluminum Pole Cap				3,000 mm (10 foot)	3,600 mm (12 foot)	
	Mounting Height	TYPE C & D	9,525 mm (31'-3")	10,900 mm (35'–9")	11,875 mm (39'-0")	
CLAMP-ON TRUSS-TYPE I						
NOTE: Electroliers shall be designated by light standard type, mast arm type and						
mast arm length, i.e., A—II—2400 (A—II—8). Dimensions are in millimeters, except as noted						
REVISIONS CITY OF LO		BEACH,	CALIF		STANDARD PLAN NO.	
1\ 01/06/98 2\ 12/23/02				HTS	METRIC 706	
APPROVED BY: Mal	att		DATE:	1/10/03	SHEET	
CITY ENGINEER	R.E. No. 7059	19	EX. DAT	E 03/31/03	OF	



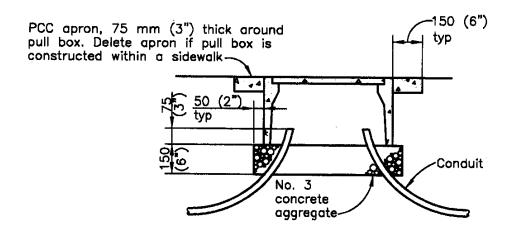


PULL						
BOX	TYPE	Out	side	Co	ver	
NO.		Α	В	С	D	
5	PCC	635 (25")	380 (15*)	550 (21 3/4")	300 (11 3/4")	
6	PCC	865 (34")	560 (22")	755 (29 3/4")	450 (17 3/4")	

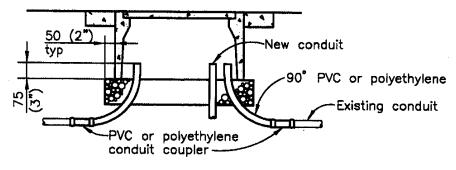
NOTE:

Pull boxes shall be non-boltdown type unless noted.

PULL BOX DETAILS



TYPICAL PULL BOX INSTALLATION

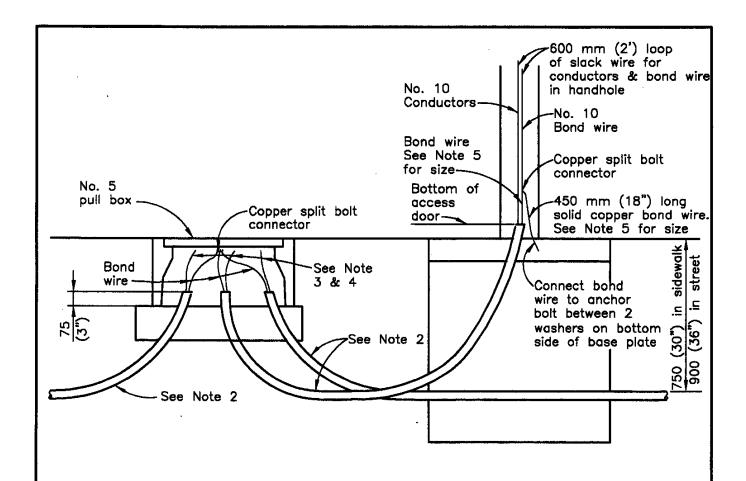


TYPICAL CONDUIT INTERCEPT

NOTE:

Size of coupler and new conduit shall be same size as existing conduit

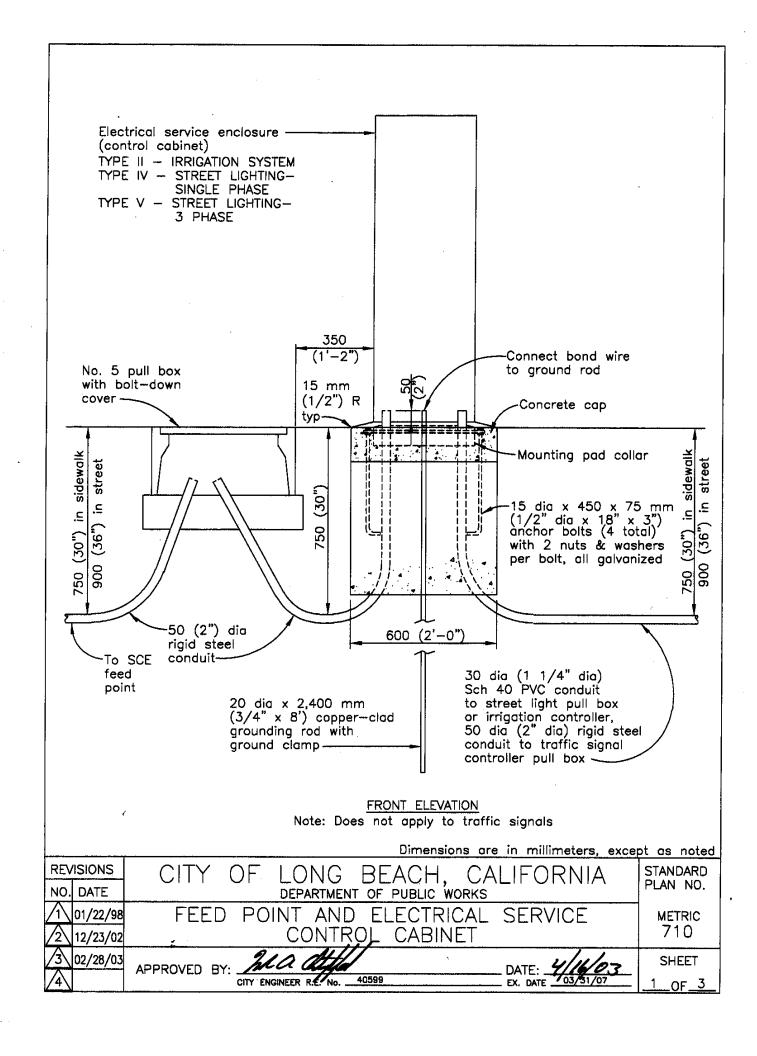
Dimensions are in millimeters, except as noted **REVISIONS** OF. LONG STANDARD BEACH, PLAN NO. NO. DATE DEPARTMENT OF PUBLIC WORKS 01/21/98 **METRIC** PULL BOX & CONDUIT DETAILS 708 2/23/02 APPROVED BY: LIVE ENGINEER R.E. No. . SHEET DATE: EX. DATE 703/3 _OF__1

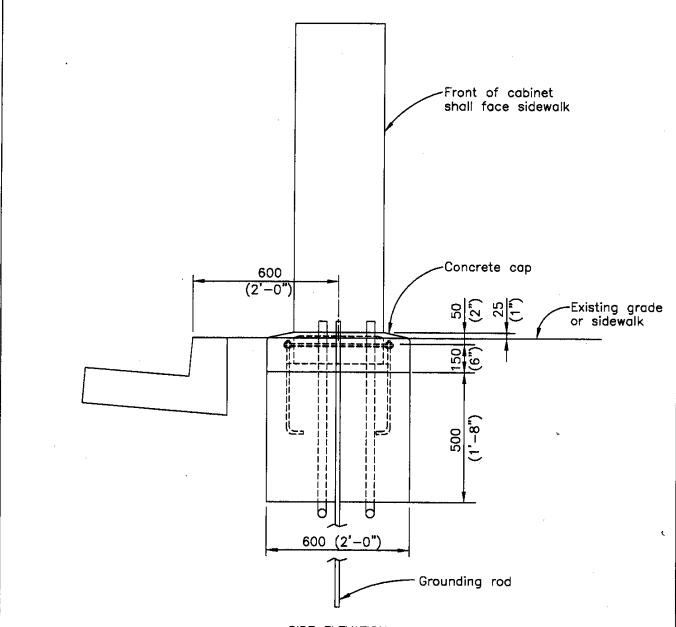


NOTES:

- A No. 5 pull box shall be installed adjacent to all street light standards. Conduit shall be 25 mm (1") Sch 40 PVC unless otherwise noted.
- 3. Series Circuits — Connect conductors to remote ballast in pull box.
- Multiple Circuits Connect conductors to fuseholder in pull box. See Standard Plan LB-713.
- Bond wire shall be same size as conductor wire between street light pull boxes.
- See Standard Plan LB-716 for additional notes.

	Dimensions are in millimeters, exce	pt as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
1 01/22/98	. The Don the Division Blotte Dollows	METRIC
2 12/23/02	AND CONDUCTOR DETAILS	709
3	APPROVED BY: Mal Differ DATE: 1/10/03	SHEET
4	CITY ENGINEER R.E. No. 40599 EX. DATE 03/31/03	1 OF 1





SIDE ELEVATION Note: Does not apply to traffic signals

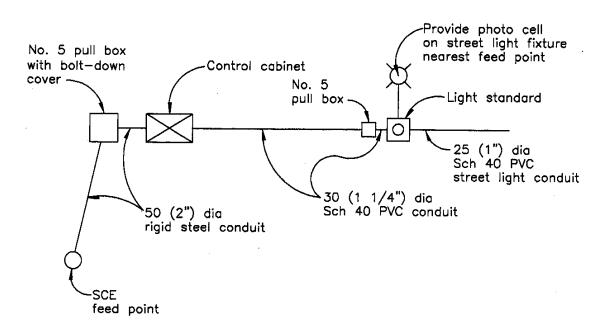
NOTES:

- Control cabinet shall conform to the City of Long Beach Specifications for "Electrical Service Enclosure."

 Contractor shall notify City Light and Power at (562) 983—2000

 48 hours before installing any conduit.

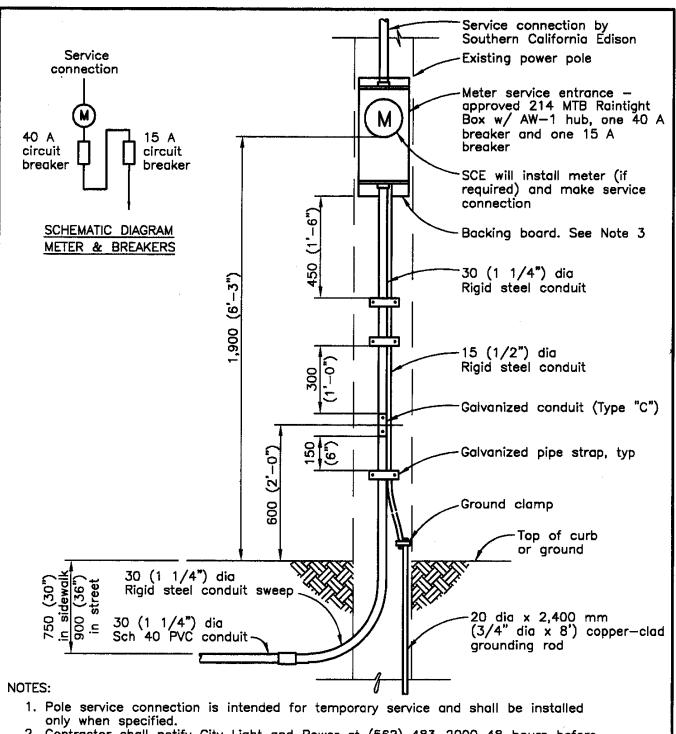
	Dimensions are in millimeters,	except as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
1 01/22/98	FEED POINT AND ELECTRICAL SERVICE	METRIC
2 12/23/02	CONTROL CABINET	710
3 02/28/03	APPROVED BY: M. A. A. M. DATE: 4/16/0	SHEET
4	CITY ENGINEER R.S. No. 40599 EX. DATE 03/51/07	2 OF 3



FEED POINT SCHEMATIC DETAIL

Note: Does not apply to traffic signals

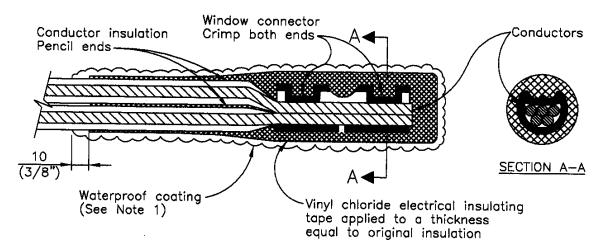
	Dimensions are in millimeters, exce	pt as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
1 01/22/98	FEED POINT AND ELECTRICAL SERVICE	METRIC
2 12/23/02	CONTROL CABINET	710
3 02/28/03	APPROVED BY: Maddle DATE: 4/16/03	SHEET
4	CITY ENGINEER 92. No. 40599 EX. DATE 03/31/07	3 OF 3



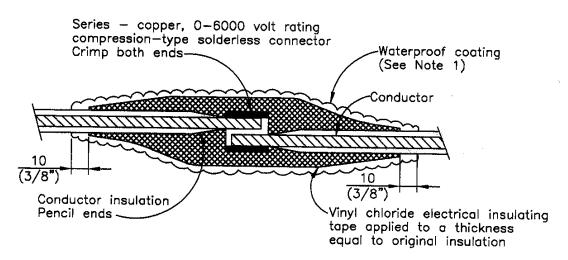
2. Contractor shall notify City Light and Power at (562) 483-2000 48 hours before installing any conduit.

3. Backing board shall be 20 mm (3/4") redwood with 20 x 40 mm $(3/4" \times 1 1/2")$ redwood cleats top and bottom. Fasten board to pole with four 16d galvanized nails. Paint board with two coats of exterior green enamel on all sides.

	/ISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD PLAN NO.
$\overline{}$	DATE	DEPARTMENT OF PUBLIC WORKS	TAN NO.
	01/22/98 12/23/02	DOWED DOLE SEDVICE CONNECTION	METRIC 711
₹		APPROVED BY: 200 DATE: 1/0/03 CITY ENGINEER R.E. No. 19699 EX. DATE 03/61/03	SHEET 1 OF 1



MULTIPLE CONDUCTOR TYPE (MULTIPLE CIRCUITS)



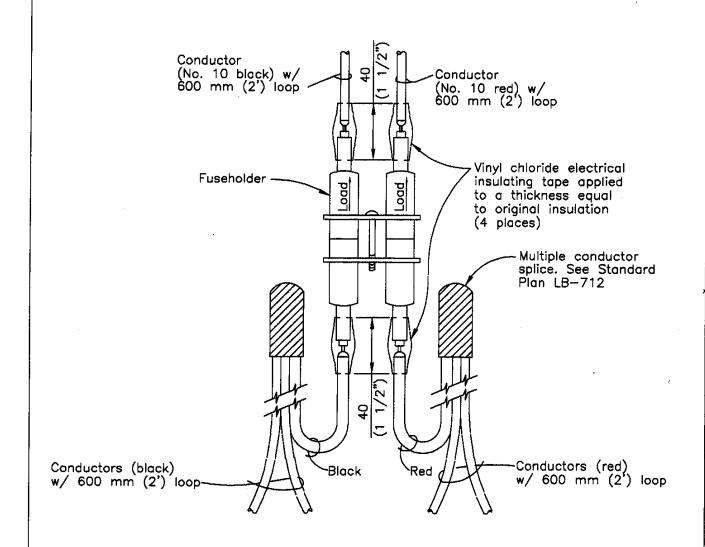
SINGLE CONDUCTOR TYPE (SERIES CIRCUITS)

WINDOW SPLICE CONNECTORS Note: Does not apply to traffic signals

NOTES:

- 1. Waterproof coating shall be 3M Skotchkote Part No. 054007-14853 or approved equal.
- 2. Wire nuts shall not be used for splices.

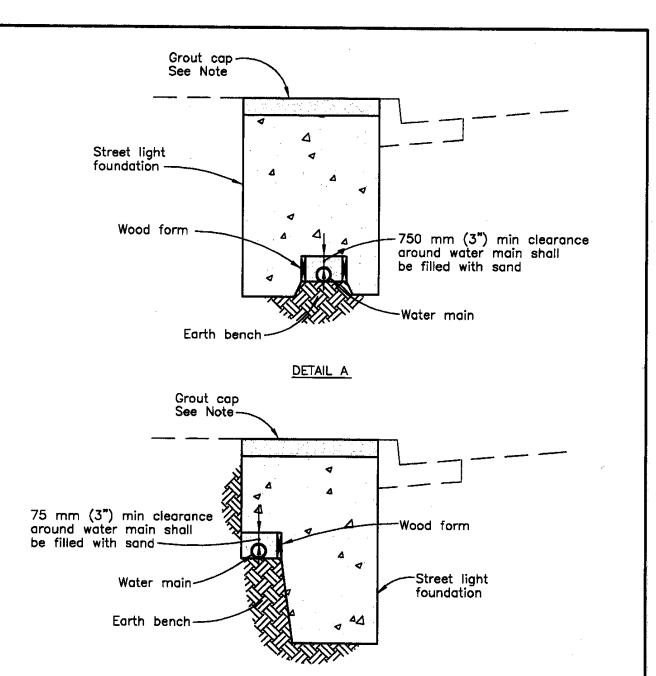
· · · · · · · · · · · · · · · · · · ·	Dimensions are in millimeters, exce	pt as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD PLAN NO.
NO. DATE	DEPARTMENT OF PUBLIC WORKS	FLAN NO.
1 01/26/98	COMPLICATOR CRITICAL TOTAL	METRIC
2 12/23/02	CONDUCTOR SPLICING DETAILS	712
3 02/28/03	APPROVED BY: 21 a dtf	SHEET
4	CITY ENGINEER R.E. 40599 EX. DATE 03/31/07	_1_OF_1



Fuse size for high pressure sodium lamps shall be $15\ \mathrm{A}$

Note: Does not apply to safety lighting at signalized intersections.

<u> </u>	Dimensions are in millimeters, exce	pt as noted
REVISION	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
1 01/26	/98	METRIC
2 12/23	FUSEHOLDER DETAILS	713
3 02/28	APPROVED BY: 21 a dt 1000 DATE: 4/16/03	SHEET
4	CITY ENGINEER ME. No. 40599 EX. DATE 03/31/07	1 OF 1

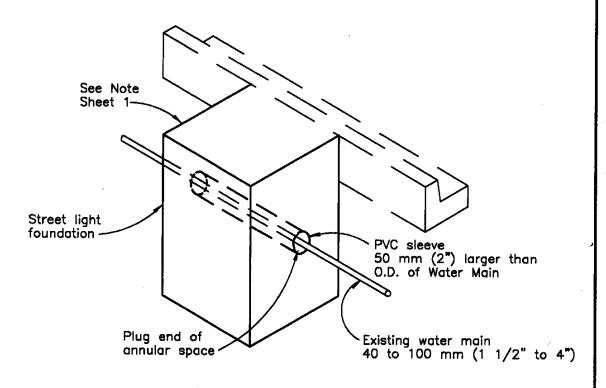


DETAIL B

NOTE:

Prior to constructing PCC grout cap the Contractor shall notify the Electrical Superintendent to stamp the finished cap with concrete stamp reading "NOTIFY LB WATER DEPT PRIOR TO REMOVAL OF BASE".

	Dimensions are in millimeters, exce	pt as noted
REVISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO. DATE		PLAN NO.
1 01/26/98		METRIC
2 12/23/02	WATER MAIN ENCASEMENT DETAIL	714
<i>√</i> 3\	APPROVED BY: Mal attle DATE: 1/19/03	SHEET
4	APPROVED BY:	1_0F_2



DETAIL C

NOTE:

If bell coupling is encountered the 0.D. of the sleeve shall be 50 mm (2") larger than the 0.D. of the bell.

Dimensions are in millimeters, except as noted **REVISIONS** CITY OF BEACH, LONG **STANDARD** PLAN NO. NO. DATE DEPARTMENT OF PUBLIC WORKS 01/26/98 **METRIC** WATER MAIN ENCASEMENT DETAIL 714 12/23/02 SHEET APPROVED BY: CITY ENGINEER R.E. No. DATE: 1/10/0 EX. DATE / 03/51/03

NOTES:

Electroliers shall consist of high pressure sodium luminaires with integral

ballast and 240 volt multiple circuitry.

Conductors and bond wires shall be stranded copper wire with 600-volt, grade THWN insulation, except bond wire connection to street light anchor bolt shall be solid copper wire. Color of insulation for each pair of conductors shall consist of one black and one red conductor. Color of bond wire insulation shall be green.

Conductors between street light pull boxes shall be No. 8 wire unless

otherwise shown on the project plans.

Conductors between electrical service pull box and street light control cabinet shall be No. 6 wire unless noted otherwise shown on the project

Conductors between fuseholder in street light pull box and luminaire shall

be No. 10 wire.

Bond wire shall be the same size as the conductors except at the street light foundation, as shown on the Standard Plans.

An electrical service control cabinet shall be installed at each feed point. The cabinet shall conform to the Long Beach Standard Plans and the Long Beach Specifications for Electrical Service Enclosure.

The ground rod to be constructed with the electrical service cabinet shall

have a resistance to ground not exceeding 25 ohms.

Interfering water service laterals and water mains shall be encased in the street light foundation as shown on the Standard Plans.

Gas service laterals, water bullhead laterals or water fittings and valves shall not be incased in the street light foundation. The foundation shall be constructed to clear these interferences by 600 mm (2') minimum at a location approved by the Engineer.

		Dimensions are in millimeters, excep	ot as noted
REV	/ISIONS	CITY OF LONG BEACH, CALIFORNIA	STANDARD
NO.	DATE	DEPARTMENT OF PUBLIC WORKS	PLAN NO.
Λ	01/27/98		METRIC
/ 2\	12/23/02	GENERAL NOTES	716
3		APPROVED BY: Man Childel DATE: 1/10/03	SHEET
4		APPROVED BY: DATE: 103/51/03 CITY ENGINEER R.E. No. A0399 EX. DATE 03/51/03	_1_0F_1_